B.B.M.P

# BRUHAT BENGALURU MAHANAGARA PALIKE

## YELAHANKA ZONE

### DIVISION: BYATARAYANAPURA

### SUB DIVISION: VIDYARANYAPURA

Name of Work: **Estimate for Improvements to Roads and Drains at HMT Layout 6th, 7th Block and Surrounding area in Ward No. 14 (Vidyaranyapura).**

**Estimated Cost Rs. 55.00 Lakhs**

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**YELAHANKA ZONE**

**NAME OF WORK:- Improvements to Roads and Drains at HMT Layout 6th, 7th Block and Surrounding area in Ward No. 14 (Vidyaranyapura).**

**Estimation Cost.Rs 5500000.00**

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 1 | Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)** | Cum | | | | | | | |
| | **New Drain** | | | | | | | | |
| | 6th Main 6th Block HMT Layout | | 2 | 75.00 | 1.00 | 1.00 | 150.00 | | |
| | 7th Block 7th Main HMT Layout | | 2 | 157.00 | 1.00 | 1.00 | 314.00 | | |
| | 7th Block 10th Main HMT Layout | | 1 | 85.00 | 1.00 | 1.00 | 85.00 | | |
| | | | | | | | | | |
| | Narasipura 2nd Phase | | 1 | 100.00 | 1.30 | 1.20 | 156.00 | | |
| | | | | | | | | | |
| | Basic rate | 186.00 | | | | | | | |
| | Area weightage 10% | 18.60 | | | | | | | |
| | Sub Total | 204.60 | | | | | | | |
| | Total | | | | | | **705.00** | 204.60 | **144243.00** |
| 2 | Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)** | Cum | | | | | | | |
| | **New Drain** | | | | | | | | |
| | 6th Main 6th Block HMT Layout | | 2 | 75.00 | 1.00 | 0.15 | 22.50 | | |
| | 7th Block 7th Main HMT Layout | | 2 | 157.00 | 1.00 | 0.15 | 47.10 | | |

| No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | 7th Block 10th Main HMT Layout | | 1 | 85.00 | 1.00 | 0.15 | 12.75 | | |
| | | | | | | | | | |
| | Narasipura 2nd Phase | | 1 | 100.00 | 1.30 | 0.15 | 19.50 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 5554.00 | | | | | | | |
| | Area weightage 10% | 555.40 | | | | | | | |
| | Sub Total | 6109.40 | | | | | | | |
| | Total | | | | | | **101.85** | 6109.40 | **622242.00** |
| | | | | | | | | | |
| | Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenantes required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) **(PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2) )** | Cum | | | | | | | |
| | **New Drain** | | | | | | | | |
| | **Raft** | | | | | | | | |
| | 6th Main 6th Block HMT Layout | | 2 | 75.00 | 0.90 | 0.15 | 20.25 | | |
| | 7th Block 7th Main HMT Layout | | 2 | 157.00 | 0.90 | 0.15 | 42.39 | | |
| | 7th Block 10th Main HMT Layout | | 1 | 85.00 | 0.90 | 0.15 | 11.47 | | |
| | Narasipura 2nd Phase | | 1 | 100.00 | 1.20 | 0.15 | 18.00 | | |
| | **Side Wall** | | | | | | | | |
| | 6th Main 6th Block HMT Layout | | 2x2 | 75.00 | 0.15 | 0.60 | 27.00 | | |
| | 7th Block 7th Main HMT Layout | | 2x2 | 157.00 | 0.15 | 0.60 | 56.52 | | |
| | 7th Block 10th Main HMT Layout | | 2x1 | 85.00 | 0.15 | 0.60 | 15.30 | | |
| | | | | | | | | | |
| | Narasipura 2nd Phase | | 2 | 100.00 | 0.15 | 0.90 | 27.00 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 5968.00 | | | | | | | |
| | Add 5% for Shuttering | 298.40 | | | | | | | |
| | | 6266.40 | | | | | | | |
| | Area weightage 10% | 626.64 | | | | | | | |
| | **Sub Total** | **6893.04** | | | | | | | |
| | Total | | | | | | **217.93** | 6893.04 | **1502200.00** |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 4 | Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 **(PWD SR 2021-22 Vol - III Pg 99 item no 13.1)** | | | | | | | | |
| | **For Drain** | Cum | | | | | 217.93 | | |
| | | kg | Steel assumed 60Kg/Cum of Concrete | | | | 0.06 | | |
| | | tonne | | | | | **13.08** | | |
| | Issued Rate 07-07-2022 Basic rate | 92170.00 | | | | | | | |
| | Area weightage 10% | 9217.00 | | | | | | | |
| | **Sub Total** | **101387.00** | | | | | | | |
| | **Total** | | | | | | **13.08** | 101387.00 | **1325716.00** |
| 5 | Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **10cm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete. **(Approved Data Rate)** | Sqm | | | | | | | |
| | **Covering Slab** | | | | | | | | |
| | 6th Main 6th Block HMT Layout | | 2 | 60.00 | 0.90 | | 108.00 | | |
| | 7th Block 7th Main HMT Layout | | 2 | 80.00 | 0.90 | | 144.00 | | |
| | 7th Block 10th Main HMT Layout | | 1 | 75.00 | 0.90 | | 67.50 | | |
| | Narasipura 2nd Phase | | 1 | 100.00 | 1.20 | | 120.00 | | |
| | Data rate | 2337.00 | | | | | | | |
| | Total | | | | | | **439.50** | 2072.00 | **910644.00** |
| | Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C )** | Cum | | | | | | | |
| | Qty Vide 90% of Item No- (1) | | | | | | 676.80 | | |
| | Total | | | | | | **676.80** | 81.40 | **55092.00** |
| | Basic rate | 74.00 | | | | | | | |
| | Area Weightage 10% | 7.40 | | | | | | | |
| | Total | 81.40 | | | | | | | |

| No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 7 | Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)** | T.Km | | | | | | | |
| | Qty frm Item No-06 | | | 676.80 | 1.28 | | 866.30 | | |
| | Total | | | | | | **866.30** | 115.50 | **100058.00** |
| | 15Km 7*15 | 105.00 | | | | | | | |
| | Area Weightage 10% | 10.50 | | | | | | | |
| | Total | 115.50 | | | | | | | |
| | | | | | | | | Grand Total | **4660195.00** |
| | | | | | | | GST Charges (18% of Executed cost) | | **838835.00** |
| | | | | | | | Miscellenious and rounding off | | **970.00** |
| | | | | | | | | Total Amount | **5500000.00** |

**Rupees Fifty Five Lakh(s) Only**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

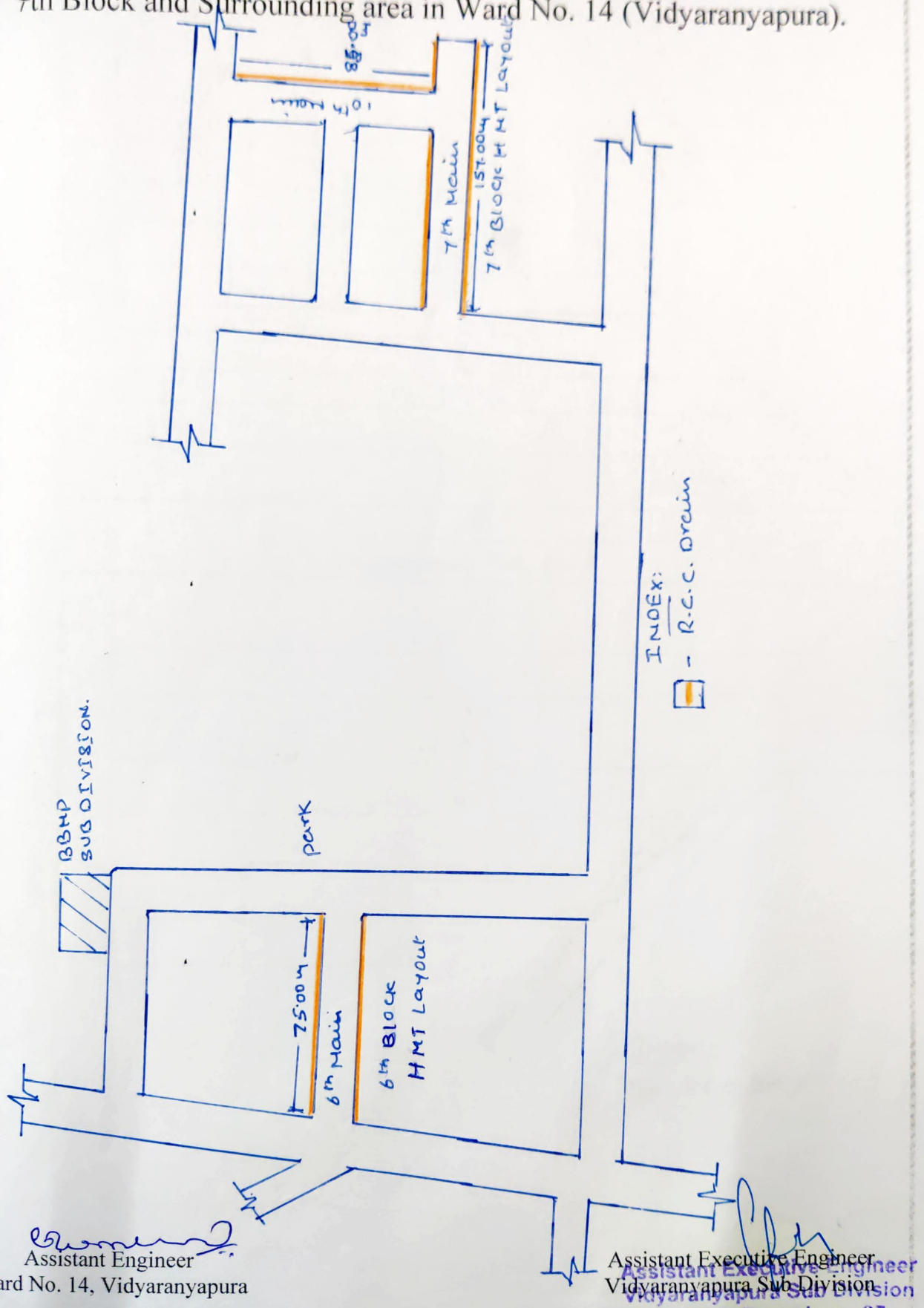
Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Executive Engineer
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Rs. 55.00 Lakhs only
Head of A/c. P3726
Div. Ref No. 58 Date. 21/02/23
AE
EE(BTP)

Technical Sanction
Accorded For Rs. 55.00 Lakhs
Head of A/C. P3726
CER NO :..106..... Dt:..16/09/22

Name of Work: Improvements to Roads and Drains at HMT Layout 6th, 7th Block and Surrounding area in Ward No. 14 (Vidyaranyapura).




Assistant Engineer
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Assistant Executive Engineer
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B.B.M.P, Bangalore - 97.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97